

ABSTRACT

The present invention relates to a plastics material with self-lubricating action which is particularly suitable for the production of sealing elements for reciprocating compressors, said material comprising a wear-resistant polymer matrix, preferably made from polyketone, within which are dispersed microcapsules containing a lubricating fluid. The microcapsules incorporated into the polymer matrix break up as a result of friction with the contact surface of the sliding partner, resulting in the escape of the lubricating fluid and a consequent reduction in friction.